

the specification of which

0903/26-/ (US) ·2003-032 ·139 ·2003-0593

Attorney's Docket No.: 473.43213X00

DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

As a below named inventor, I hereby declare that: my residence, post office address and country of citizenship are as stated below, next to my name; I believe I am the original, first, and sole inventor (if only one name is listed below) or an original, first, and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

A DEPTH OF INTERACTION DETECTOR WITH UNIFORM PULSE-HEIGHT

Was filed on October 15, 2003 as United States Application Number 10/684, 413 or PCT International Application Number and was amended on (if applicable) I hereby state that I have reviewed and understand the contents of the above-identified specification, including claim(s), as amended by any amendment referred to above. I acknowledge the duty to disclose all information known to be material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56. I hereby claim foreign priority benefits under Title 35, United States Code, Section 119(a)-(d), of any for application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for inventor's certificate having a filing date before that of the application on which priority is claimed: Prior Foreign Application(s) 2002-300125 Japan J5/October/2002 X (Number) (Country) (Day/Month/Year Filed) Yes No I hereby claim the benefit under title 35, United States Code, Section 119(e) of any United States provisional applicationed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United Stapplication in the manner provided by the first paragraph of Title 35, United States Code, Section 112, I acknowledge with the disclose all information known to me to be material to patentability as defined in Title 37, Code of Fed Regulations, Section 1.56 which became available between the filing date of the prior application and the national or international filing date of this application: (Application Number) Filing Date (Status patented, pending, abandoned)		is attached here	to.				
or PCT International Application Number	<u>X</u>						
and was amended on (if applicable) I hereby state that I have reviewed and understand the contents of the above-identified specification, including claim(s), as amended by any amendment referred to above. I acknowledge the duty to disclose all information known to be material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56. I hereby claim foreign priority benefits under Title 35, United States Code, Section 119(a)-(d), of any fore application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for inventor's certificate having a filing date before that of the application on which priority is claimed: Priori Foreign Application(s) 2002-300125 Japan 15/October/2002 X (Number) (Country) (Day/Month/Year Filed) Yes No I hereby claim the benefit under title 35, United States Code, Section 119(e) of any United States provisional applicational insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States in the manner provided by the first paragraph of Title 35, United States Code, Section 112, I acknowledge duty to disclose all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56 which became available between the filing date of the prior application and the national or international filing date of this application: (Application Number) Filing Date (Status patented,		United	l States Application Nur	mber 10/684,413			
I hereby state that I have reviewed and understand the contents of the above-identified specification, includic claim(s), as amended by any amendment referred to above. I acknowledge the duty to disclose all information known to be material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56. I hereby claim foreign priority benefits under Title 35, United States Code, Section 119(a)-(d), of any fore application(s) for patent or inventor's certificate histed below and have also identified below any foreign application for inventor's certificate having a filing date before that of the application on which priority is claimed: Prior Foreign Application(s) Prior Foreign Application(s) Claimed				ion Number			
I hereby state that I have reviewed and understand the contents of the above-identified specification, includic claim(s), as amended by any amendment referred to above. I acknowledge the duty to disclose all information known to be material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56. I hereby claim foreign priority benefits under Title 35, United States Code, Section 119(a)-(d), of any fore application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for inventor's certificate having a filing date before that of the application on which priority is claimed: Priority Prior Foreign Application(s) 2002-300125		and wa	as amended on				
claim(s), as amended by any amendment referred to above. I acknowledge the duty to disclose all information known to be material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56. I hereby claim foreign priority benefits under Title 35, United States Code, Section 119(a)-(d), of any forcian application(s) for patent or inventor's certificate listed below and have also identified below any forcign application for inventor's certificate having a filing date before that of the application on which priority is claimed: Priority Claimed 2002-300125				(if applicable)			
Prior Foreign Application(s) 2002-300125 [Number) (Country) (Day/Month/Year Filed) (Number) (Country) (Day/Month/Year Filed) Yes No [Number) (Number) (Country) (Day/Month/Year Filed) Yes No [I hereby claim the benefit under title 35, United States Code, Section 119(e) of any United States provisional applicational listed below [Application Number] Filing Date I hereby claim the benefit under Title 35, United States Code, Section 120 of any United States application below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States limited States Code, Section 112, I acknowledge duty to disclose all information known to me to be material to patentability as defined in Title 37, Code of Fed Regulations, Section 1.56 which became available between the filing date of the prior application and the national or international filing date of this application: [Application Number] Filing Date (Status patented,	claim(s), as amend to be material to p I hereby application(s) for	ded by any amen patentability as de claim foreign pa patent or invento	dment referred to above efined in Title 37, Code riority benefits under Ti or's certificate listed belo	e. I acknowledge the duty to disclose of Federal Regulations, Section 1.5 at the 35, United States Code, Section ow and have also identified below as	e all inform 6. 119(a)-(a ny foreign	nation kno	wn to me
Number Japan 15/October/2002 X No	n. n						
(Number) (Country) (Day/Month/Year Filed) Yes No (Number) (Country) (Day/Month/Year Filed) Yes No (Number) (Country) (Day/Month/Year Filed) Yes No I hereby claim the benefit under title 35, United States Code, Section 119(e) of any United States provisional applications below (Application Number) Filing Date I hereby claim the benefit under Title 35, United States Code, Section 120 of any United States application below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United Stapplication in the manner provided by the first paragraph of Title 35, United States Code, Section 112, I acknowledge duty to disclose all information known to me to be material to patentability as defined in Title 37, Code of Fed Regulations, Section 1.56 which became available between the filing date of the prior application and the national or international filing date of this application: (Application Number) Filing Date (Status patented,	Prior Foreign App	olication(s)			Clain	ned	
(Number) (Country) (Day/Month/Year Filed) Yes No (Number) (Country) (Day/Month/Year Filed) Yes No (Number) (Country) (Day/Month/Year Filed) Yes No I hereby claim the benefit under title 35, United States Code, Section 119(e) of any United States provisional applications below (Application Number) Filing Date I hereby claim the benefit under Title 35, United States Code, Section 120 of any United States application below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United Stapplication in the manner provided by the first paragraph of Title 35, United States Code, Section 112, I acknowledge duty to disclose all information known to me to be material to patentability as defined in Title 37, Code of Fed Regulations, Section 1.56 which became available between the filing date of the prior application and the national or international filing date of this application: (Application Number) Filing Date (Status patented,	2002-30012	5	Ianan	15/October/2002	v		
(Number) (Country) (Day/Month/Year Filed) Yes No I hereby claim the benefit under title 35, United States Code, Section 119(e) of any United States provisional applicational listed below (Application Number) Filing Date I hereby claim the benefit under Title 35, United States Code, Section 120 of any United States application below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, Section 112, I acknowledge duty to disclose all information known to me to be material to patentability as defined in Title 37, Code of Fed Regulations, Section 1.56 which became available between the filing date of the prior application and the national or international filing date of this application: (Application Number) Filing Date (Status patented,			•			No	
I hereby claim the benefit under title 35, United States Code, Section 119(e) of any United States provisional applicational listed below [Application Number] Filing Date I hereby claim the benefit under Title 35, United States Code, Section 120 of any United States application (abelow and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, Section 112, I acknowledge duty to disclose all information known to me to be material to patentability as defined in Title 37, Code of Fed Regulations, Section 1.56 which became available between the filing date of the prior application and the national or international filing date of this application: [Application Number] Filing Date (Status patented,	(I validel)	•	(Country)	(Day/World Four Fried)	103	1.0	
(Application Number) Filing Date I hereby claim the benefit under Title 35, United States Code, Section 120 of any United States application (below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United Stapplication in the manner provided by the first paragraph of Title 35, United States Code, Section 112, I acknowledge duty to disclose all information known to me to be material to patentability as defined in Title 37, Code of Fed Regulations, Section 1.56 which became available between the filing date of the prior application and the national or international filing date of this application: (Application Number) Filing Date (Status patented,	(Number))	(Country)	(Day/Month/Year Filed)	Yes	No	
I hereby claim the benefit under Title 35, United States Code, Section 120 of any United States application (states) below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, Section 112, I acknowledge duty to disclose all information known to me to be material to patentability as defined in Title 37, Code of Fed Regulations, Section 1.56 which became available between the filing date of the prior application and the national or international filing date of this application: (Application Number) Filing Date (Status patented,		benefit under tit	tle 35, United States Cod	de, Section 119(e) of any United Sta	ates provis	ional appli	cation(s)
below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United Stapplication in the manner provided by the first paragraph of Title 35, United States Code, Section 112, I acknowledge duty to disclose all information known to me to be material to patentability as defined in Title 37, Code of Fed Regulations, Section 1.56 which became available between the filing date of the prior application and the national or international filing date of this application: (Application Number) Filing Date (Status patented,	(Application N	umber)	Filing Date				
	below and, insofar application in the duty to disclose a Regulations, Secti	r as the subject n manner provided all information k ion 1.56 which b	natter of each of the claid d by the first paragraph of chown to me to be mat became available betwee	ms of this application is not disclose of Title 35, United States Code, Sec erial to patentability as defined in	ed in the protion 112, It	rior United acknowle Code of F	l States dge the Federal
	(Application N	Jumber)	Filing Date		abandoned)	

I hereby appoint: Donald R. Antonelli, Reg. No. 20,296; Melvin Kraus, Reg. No. 22,466; William I. Solomon, Reg. No. 28,565; Gregory E. Montone, Reg. No. 28,141; Ronald J. Shore, Reg. No. 28,577; Donald E. Stout, Reg. No. 26,422; Alan E. Schiavelli, Reg. No. 32,087; James N. Dresser, Reg. No. 22,973; Carl I. Brundidge, Reg. No. 29,621; Paul J. Skwierawski, Reg. No. 32,173; and Hung H. Bui, Reg. No. 40,415, my attorneys; of ANTONELLI, TERRY, STOUT & KRAUS, LLP with offices located at 1300 North Seventeenth Street, Suite 1800, Arlington, Virginia 22209, telephone: (703) 312-6600, fax: (703) 312-6666; with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith.

Send all correspondence to:

CUSTOMER NUMBER: 020457
ANTONELLI, TERRY, STOUT & KRAUS, LLP
1300 North Seventeenth Street
Suite 1800
Arlington, VA. 22209

Direct all telephone calls and faxes to:

TEL: (703) 312-6600 FAX: (703) 312-6666

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of Sole/First Inventor	Keiii SUMIYA		
Inventor's Signature Keiger Residence Ibaraki, Japan	i Semina		June 8, 2004
Inventor's Signature	V XIWMUYU	Date _	
Residence <u>Ibaraki, Japan</u>	U	CitizenshipJa	panese
(City	, State)		(Country)
Post Office Addressc/o Rese	arch & Development Cent	er, Hitachi Chemical (Co. Ltd.
48, Wadai	, Tsukuba-Shi, Ibaraki, Ja	pan	
Full Name of Second/Joint Inventor	•		
Inventor's Signature Uicconstruction Ibaraki, Japan	yuki Ishibas	Li Date_	June 8, 2004
Residence <u>Ibaraki, Japan</u>	/	Citizenship	Japanese
(City	State)		(Country)
Post Office Addressc/o Yan	nazaki Works, Hitachi Che	mical Co., Ltd., 1380-	1 Aza-Nishihara
Oaza-Ta	razaki, Hitachinaka-Shi, I	baraki, Japan	
_			
Full Name of Third/Joint Inventor _	Hideo MURAYA	MA	
Inventor's Signature Chiba, Japan (City,	ler My	Date	June 8, 2004
Residence Chiba Japan		Citizenship	Japanese
(City.	State)	•	(Country)
Post Office Address			
Inage-I	Ku, Chiba-shi, Chiba, Japa	n	

Full Name of Fourth/Joint	Inventor	Naoko INADAM	Α	
	n	0 /		June 8, 2004
Inventor's Signature	/Laoko	- Unadama	Date	
Residence Chiba, Ja			Citizenship	
	(City, Stat			(Country)
Post Office Address	c/o Nationa	al Institute of Radiologi	cal Sciences, 9-1, A	Anagawa 4-Chome,
_	Inage-Ku,	Chiba-Shi, Chiba, Japa	<u> </u>	
Full Name of Fifth/Joint In	wentor	Takaji VAMASU	īΤΛ	
Inventor's Signature	Calassia.	4 amashita	Date	June 8, 2004 Japanese
Residence Shizuok	a Japan		Citizenship	Japanese
	(City, Stat	te)		(Country)
Post Office Address			HAMAMATSU PH	HOTONICS K.K.,
		•		•
_	5000, Hira	akuchi, Hamakita-Shi, S	Shizuoka, Japan	
		m 111 01 mm		
Full Name of Sixth/Joint I				
Inventor's Signature	Tomas	Le anne	Data	June 8, 2004
Residence Shizuc	ka Tanan	0,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Date .	Iananese
ResidenceSHIZIR	(City, Stat		_ Citizensinp	(Country)
Post Office Address			HAMAMATSUF	PHOTONICS K.K.
		,	,	
	5000, Hir	akuchi, Hamakita-Shi,	Shizuoka, Japan	
Full Name of Seventh/Joir	nt Inventor			
*				
Inventor's Signature			Date	
Residence	(City, Stat	ta) .	_ Citizenship	(Country)
Post Office Address	(City, Stat	ie)		(Country)
1 OSt Office Address				
Full Name of Eighth/Joint	Inventor			
Inventor's Signature				
Residence			_ Citizenship	
D . OM	(City, Stat	te)		(Country)
Post Office Address				